

2. (thrice amended) The system of claim 1, in which the relationship includes a cryptographic function.

3. (thrice amended) The system of claim 2, in which the relationship includes a one-way function.

4. (twice amended) The system of claim 1, in which the second bitpattern identifies the encoder means.

5. (thrice amended) A recorder comprising:

means for generating a second bitpattern according to a predefined relationship to a first bitpattern represented on a record carrier by a medium mark; and

encoder means for embedding a watermark representing the second bitpattern in user information to be recorded ; and

means for recording the watermarked user information on the record carrier.

6. (thrice amended) The recorder of claim 5, in which:

the recorder further comprises marking means for writing the medium mark on the information carrier; and

the generating means generate the first bitpattern from a seed according to a further predefined relationship.

7. (thrice amended) The recorder of claim 6 , in which the generating means generate the first bitpattern by combining a first part represented by a prepressed mark on a recordable information carrier and a second part generated from the seed.

8. (twice amended) The recorder of claim 6, in which the further predefined relationship includes a cryptographic one-way function.

9. (thrice amended) An information carrier comprising:

a medium mark representing a first bitpattern; and

recorded information encoded with a watermark representing a second bitpattern having a predefined relationship to the first bitpattern whereby the relationship between the second bitpattern and the first bitpattern can be verified in a computer process.

10. (twice amended) The information carrier of claim 9, in which the first bitpattern includes:

a first part identifying a source of the information carrier; and

a second part identifying the recorded information.

11. (thrice amended) A player comprising:

means for reproducing user information from a record carrier;

first means for reading a medium mark representing a first bitpattern from the record carrier;

second means for detecting a second bitpattern represented by a watermark in the reproduced user information; and

verification means for verifying a predefined relationship between the second bitpattern and the first bitpattern.

12. (twice amended) The player of claim 11, in which the verification means includes a cryptographic one-way function.

13. (thrice amended) The player of claim 12, in which:

the verification means generate a verification pattern by applying a one-way function to the first bitpattern; and

the verification means compare the verification pattern and the second bitpattern in order to verify the predefined relationship.

14. (twice amended) The system of claim 1, in which:

the relationship includes a one-way function;

the relationship includes a cryptographic function; and

the second bitpattern identifies the encoder means.

15. (thrice amended) The recorder of claim 5, in which:  
the recorder further comprises means for reading the first  
bit pattern from the record carrier;  
the first bit pattern indicates a copy protection status of  
the record carrier;  
the relationship includes a cryptographic function;  
the relationship includes a one-way function;  
the second bitpattern identifies the encoder means;  
the recorder further comprises marking means for writing the  
medium mark on the information carrier;  
the generator means generate the first bitpattern from a  
seed according to a further predefined relationship; and  
the generator means are arranged for generating the first  
bitpattern by combining a first part represented by a prepressed  
mark on a recordable information carrier and a second part  
generated from a seed.

16. (twice amended) The information carrier of claim 9, in  
which:  
the relationship includes a cryptographic function;  
the relationship includes a one-way function; and  
the second bitpattern identifies the encoder means.

17. (twice amended) The player of claim 12, in which:  
the relationship includes a cryptographic one-way function;  
the relationship includes a one-way function; and  
the second bitpattern identifies the encoder means.

18. (amended) The system of claim 1 in which the medium mark is  
pressed in the record carrier during manufacture.

19. The system of claim 1 in which the watermarked user  
information is stored on the record carrier in a different manner  
than the medium mark is stored, the user information writing

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means being insufficient for writing the medium mark on the  
record carrier.

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